

# Weekly Report

Lu Junhua

2015 年 7 月 26 日

Feng's report at 23rd July:

- An extension of the functions in extracting data.
- Brief test of extraction.(Similar to mine report. Just getting familiar with this extraction method)
- Found a bug in their data source. It's not our fault, it's their mistake.

Prof Chen proposed a new idea for modeling the data.

- Assign a high-dimension record for each person.
- If we have to analyse a new person, we use k-nearest neighbouring to find  $k$  neighbours.
- Train a SVM classifier for the  $k$  neighbours. Input the new datum and calculate the result.
- If we take time-varying feature into account, we may add timestamp as an attribute. That is, if  $n$  persons data through  $m$  months, we get  $mn$  records totally.
- A paper discussing  $k - n - match$  may play a role in this method.

Next week, we will meet Prof. He for a brief discussion. We will make progress in extracting the data, and hopefully having more materials to discuss with Prof He at 10th August.